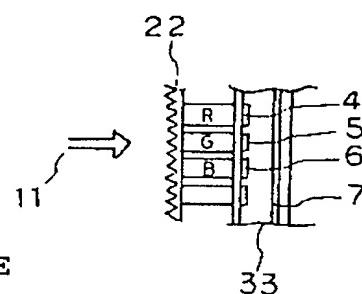
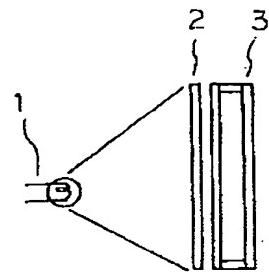


Patent Abstracts of Japan

PUBLICATION NUMBER : JP2296213  
 PUBLICATION DATE : 06-12-90  
 APPLICATION NUMBER : JP890118104  
 APPLICATION DATE : 11-05-89

VOL: 15 NO: 79 (P - 1170)  
 AB. DATE : 25-02-1991 PAT: A 2296213  
 PATENTEE : SEIKO EPSON CORP  
 PATENT DATE:06-12-1990

INVENTOR : JINGU KEIJI  
 INT.CL. : G02F1/1335  
 TITLE : LIQUID CRYSTAL DISPLAY DEVICE



**ABSTRACT :** PURPOSE: To obtain a full-color liq. crystal display device without using a color filter by fitting a means of separating light into its spectral components to the light source side of a position corresponding to each image element of a liq. crystal display.  
**CONSTITUTION:** A liq. crystal display device is composed of a liq. crystal display 3 and a light source 1 for illuminating the display 3 and a means 2 of separating light into its spectral components is fitted to the light source side of a position corresponding to each image element of the display 3. Part 11 of light emitted from the light source 1 is separated into its spectral components through a fine diffraction grating 22 and voltage impressed between segment electrodes 4-6 placed opposite to red, green and blue components R, G, B and a common electrode 7 is made variable to vary the intensities of the components R, G, B. A full-color display is obtd. without using a color filter